

A SUPPLEMENT TO THE INDICES TO THE KEYS TO AND LOCAL LISTS OF NEARCTIC COLEOPTERA¹

BY MELVILLE H. HATCH

In its arrangement the present supplement follows the general plan of the two indices² already published by the author, to which reference should be made for explanations. For corrections and additions the author is indebted to Mr. A. B. Wolcott, E. Wasmann, S. J., and Mr. Henry Dietrich, and he will appreciate having further errors and omissions called to his attention.

I. INDEX TO KEYS

- COLEOPTERA Comstock, *Man. Study Ins.* 1895, p. 505 (fam.); Provancher, *Faune Ent. Can.* I, 1877 (Que.); delete Schiodte, 61-83; Pierce, *Neb. U. Stud.* IV, 1904, p. 18 (genera of trianguloid larvæ of Meloidæ, Rhipiphoridaæ, Strepsiptera); van Emden, *Ent. Blätt.* XVIII, 1922, p. 44 (fam. of larvæ of Adephaga); XXIV, 1928, p. 15 (fam. of larvæ of Clavicornia).
- COLEOPTERA AQUATIC Needham, *Guide Stud. Fresh Water Biol.* 1927, p. 28 (common fam. and genera of larvæ).
- CICINDELIDÆ Leng, *Tr. Am. Ent. Soc.* XXVIII, 1902, p. 94-186; Beaulieu, *Nat. Can.* XXVII, 1900, p. 136-140, 152-154 (Que.).
- CARABIDÆ: Carabinæ Lapouge, *C. R. Congr. Soc. savant.* 1926, *Sci.* 1927, p. 437 (subgenera of larvæ).
- Carabini Lapouge, *Misc. Ent.* XXX, 1927, p. 45-48 (subtribes).
Calosoma-Callisthenes Breuning, *Kol. Rund.* XIII, 1927, p. 144-154 (subgenera and species).
- Harpalinæ bisetosæ: Bembidiini: Bembidion (s. lat.) Hayward, *Jr. N. Y. Ent. Soc.* V, 1897, p. 134 (n. e. N. A.).

¹ A contribution from the Zoological Laboratory of the University of Washington.

² A Systematic Index to the Keys for the Determination of the Nearctic Coleoptera, *Jr. N. Y. Ent. Soc.* XXXV, 1927, p. 279-306.

A Geographical Index to the Catalogues and Local Lists of Nearctic Coleoptera, *Jr. N. Y. Ent. Soc.* XXXVI, 1928, p. 335-354.

- Pogonini: Neaphænops-Pseudanophthalmus** (*Anophthalmus*)
 Jeannel, L'Abeille XXXV, 1928, p. 115-139; Barber, Jr.
 Wash. Acad. Sci. XVIII, 1928, p. 195 (*pusio* group).
- Pterostichini: Dysidius-Paragutor** Hausen, Can. Rec. Sci. IV,
 1891, p. 254.
- AMPHIZOIDÆ** Van Dyke, Pan-P. Ent. III, 1927, p. 197.
- OMOPHRONIDÆ** Semenov-Tian-Shanskij, Rev. Russ. Ent.
 XVIII, 1922, p. 38-45 (subgen.).
- HALIPLIDÆ** Scholz, Ent. Nachr., III, 1928, p. 28 (genera).
 Brychius Carr, Can. Ent. LX, 1928, p. 26. *Haliphus* Guig-
 not, Ann. Soc. Ent. Fr. XCVII, 1928, p. 138 (subgen.).
- DYTISCIDÆ**: Sharp, Sci. Tr. Roy. Dublin Soc. (2), II, 1882,
 p. 179 (genera and groups of species; species not keyed).
Hydrocanthus Zimmerman, Wien. Ent. Zeit. XLIV, 1928,
 p. 167-170. *Bidessus* Hatch, Bull. Brook. Ent. Soc. XXIII,
 1928, p. 217. *Hydroporus* Gellermann, Pan-P. Ent. V,
 1928, p. 63 (*mellitus* group). *Ilybius* Fall, Ent. News,
 XXXVIII, 1927, p. 284. *Copelatus* Schaeffer, Jr. N. Y.
 Ent. Soc. XVI, 1908, p. 17. *Rhantus* Hatch, Bull. Brook.
 Ent. Soc. XXIII, 1928, p. 222. *Colymbetes* Hatch, l. c., p.
 224. *Dytiscus* Hatch, l. c., p. 226. *Graphoderes* Hatch,
 l. c., p. 227.
- HYDROPHILIDÆ** Schiodte, De Metamor. Eleut. Obs. 1861,
 p. 30 (genera of larvæ). *Helochares-Helocombus*, *Helobata*
 Winters, Pan-P. Ent. IV, 1927, p. 19-29. *Sphæridiinae*
 Knisch, Arch. Naturg. LXXXV, 1927, A, 1920, p. 71
 (genera).
- STAPHYLINOIDEA** Hatch, Univ. Minn. Agr. Exp. Sta. Tec.
 Bull. 48, 1927, p. 9-12 (fam. of adults and larvæ).
- SILPHIDÆ**: *Silphinæ* Hatch, l. c. p. 4-6 (adults and larvæ of
 Minn.); Jr. N. Y. Ent. Soc. XXXV, 1927, p. 335 (larvæ),
 p. 332 (genera of Lyrosomini, Catopocerini, Agyrtini).
Pteroloma-Apteroloma Van Dyke, Bull. Brook. Ent. Soc.
 XXIII, 1928, p. 21. *Silpha-Nicrophorus* Hatch, Jr. N. Y.
 Ent. Soc. XXXV, 1927, p. 342-364. *Catopinæ* Hatch, Univ.
 Minn. Agr. Exp. Sta. Tec. Bull. 48, 1927, p. 14-15 (genera
 of adults and larvæ). *Anogdus* Hatch, l. c., p. 17. *Leio-
 dinae* Hatch, Jr. N. Y. Ent. Soc. XXXVII, 1929, p. 1 (gen.
 and subgen.).

STAPHYLINIDÆ Hatch, l. c., p. 9-10 (subfam.).

Oxytelinæ: *Pseudopsis* Strohmeyer, Ent. Blätt. VII, 1911, p. 102. *Holotrochus* Chapin, Proc. Ent. Soc. Wash. XXX, 1928, p. 65.

Aleocharinæ: *Liparocephali* Chamberlin & Ferris, Pan-P. Ent. V, 1929, p. 142-143 (genera, sp. of *Liparocephalus*). *Xenodusa* Wasmann, Deut. Ent. Zeit. 1897, p. 273.

PSELAPHIDÆ: *Rybaxis* Fall, Psyche XXXIV, 1927, p. 220.

CLAVIGERIDÆ: *Adranes* Wickham, Can. Ent. XXXIII, 1901, p. 25.

HISTERIDÆ Germain, Nat. Can. XLIII, 1916, p. 125-128, 136-138 (Que.). *Hololepta* Desbordes, Bull. Soc. Ent. Fr. 1928, p. 54 (*Leionota*, *Iliotona*; overlooks work of Schaeffer and Carnochan). *Hister* Hatch, Can. Ent. LXI, 1929, p. 76 (*interruptus* group), p. 77 (*nubilus-pollutus* group of subg. *Atholus*). *Epierus* Bickhardt, Ent. Blätt. XVI, 1920, p. 174 (*planulus* group). *Saprinus* Hatch, Can. Ent. LXI, 1929, p. 77-79 (*lugens* group), p. 79 (*rugifrons-patruelis* group of subg. *Hypocaccus*).

CANTHARIDÆ: *Podabrus* Fall, Ent. Am. VIII, 1928, p. 63.

MELYRIDÆ: *Temnopsophus* Hatch, Ann. Ent. Soc. Am. XX, 1927, p. 366. *Trichochrous* Tanner, l. c., XXI, 1928, p. 273 (part). *Listrus* Blaisdell, Pan-P. Ent. V, 1928, p. 38 (*annulatus* group). *Dasytes* Blaisdell, Ent. News XVII, 1906, p. 76 (*hudsonicus* group).

CLERIDÆ-CORYNETIDÆ: *Monophylla* Wolcott, Field Mus. Publ. VII, 1910, p. 340. *Trichodes* Wolcott, l. c., p. 367. *Cregyra* Wolcott, l. c., p. 384. *Orthopleura* Wolcott, l. c., p. 396.

RHIPIPHORIDÆ: *Macrosiagon* Pierce, Nebr. U. Stud. IV, 1904, p. 12. *Ripiphorus* Pierce, l. c., p. 9; Ent. News XXI, 1920, p. 277.

MELOIDÆ Van Dyke, U. Cal. Publ. Ent. IV, 1928, p. 404 (genera); Cros. Ann. Soc. Ent. Fr. XCVLL, 1928, p. 58 (genera of larvæ). "Meloini" Van Dyke, U. Cal. Publ. Ent. IV, 1928, p. 410, 414, 419, 448, 455, 459. *Sitarinæ* Parker and Boving, Proc. U. S. Nat. Mus. LXIV, 1924, 23, p. 32 (genera of larvæ). *Leonidia* Mickel, Ent. News XXXIX, 1928, p. 41.

- PYTHIDÆ**: *Cononotus* Van Dyke, Bull. Brook. Ent. Soc. XXIII, 1928, p. 258.
- PYROCHROIDÆ** Blair, Ann. Mag. Nat. Hist. (8) XIII, 1914, p. 310.
- MELASIDÆ** Beaulieu, Nat. Can. XLVI-XLIX, 1919-23, p. 73 et seq. (Canada).
- BUPRESTIDÆ** Chagnon, Nat. Can. XXXVI, 1909, p. 145-152, 161-171 (Que.). *Polycesta* Fall, Ent. News XVI, 1905, p. 73. *Schizopini* Horn, Tr. Am. Ent. Soc. XX, 1893, p. 137; Fall, Ent. News XVI, 1905, p. 72 (genera). *Trachykele* Fall, Ent. News XVII, 1906, p. 165. *Cinyra* Schaeffer, Bull. Brook. Inst. I, 1905, p. 128. *Anthaxia* Chamberlin, Pan-P. Ent. V, 1929, p. 109 (Western sp.). *Agrilus* Fisher, Bull. U. S. Nat. Mus. 145, 1928, p. 8. *Mastogeniini* Schaeffer, Bull. Brook. Inst. I, 1905, p. 149.
- DERMESTIDÆ** Mutchler and Weiss, N. J. Dept. Agr. Circ. 108, 1927, p. 16-26 (N. J.).
- OSTOMIDÆ** Mutchler & Weiss, N. J. Dept. Agr. Circ. 154, 1929, p. 8-14 (N. J.).
- NITIDULIDÆ** van Emden, Ent. Blätt. XXIV, 1928, p. 15 (subfam. of larvæ). *Cateritinæ* Notman, Jr. N. Y. Ent. Soc. XXVIII, 1920, (certain genera). *Nitidulinæ*: delete Grouvelle G. I. 5 (genera).
- ENDOMYCHIDÆ**: *Mycetina* Fall, Ent. News XVII, 1907, p. 174. *Stenotarsus* Walton, l. c., XXXIX, 1928, p. 217.
- PHALACRIDÆ** van Emden, Ent. Blätt. XXIV, 1928, p. 19 (genera of larvæ of *Olibrus* and *Phalacrus*).
- TENEBRIONIDÆ**: *Opatrinæ* Fall, Pan-P. Ent. IV, 1928, p. 147.
- Tenebrioninæ*: *Iphthimus* Gebien, Col. Rund. II, 1913, p. 6. *Tenebrio* Scholz, Ent. Blätt. XXI, 1925, p. 183.
- MELANDRYIDÆ**: *Microscapha-Lederia* Barrett, Pan-P. Ent. IV, 1928, p. 174. *Melandrya* Hatch, Ann. Ent. Soc. Amer. XX, 1927, p. 363. *Osphya* Van Dyke, Bull. Brook. Ent. Soc. XXIII, 1928, p. 256. *Lacconotus* Van Dyke, l. c., p. 257.
- SCARABÆOIDEA** Hayes, Ann. Ent. Soc. Am. XXI, 1928, p. 297-301 (genera of larvæ).

- SCARABÆIDÆ** Beaulieu, Nat. Can. XXVIII, 1901, p. 20-23, 83-86, 99-102; XXX, 1903, p. 10-13, 38-42, 107-127, 177 (Que.).
- Aphodiinæ** Schmidt, D. Tierrich 45, 1922. **Aphodius** Brown, Can. Ent. LIX, 1927, p. 163 (*stercorosus* group); LX, 1928, p. 11 (subg. *Platyderides*); Van Dyke, Pan-P. Ent. IV, 1928, p. 152 (*cribratus-sparsus* group).
- Geotrupinæ**: **Odontæus** Wallis, Can. Ent. LX, 1928, p. 126. **Bolbocerosoma** Brown, l. c., p. 192.
- Pleocominæ**: **Acoma** Van Dyke, Pan-P. Ent. IV, 1928, p. 159.
- Melononthinæ**: **Phyllophaga** Luginbill, Ann. Ent. Soc. Am. XXI, 1928, p. 55 (S. C.); Langston, Miss. Agr. Exp. Sta. Tec. Bull. 15, 1927, p. 8-71 (Miss.). **Polyphylla** Fall, Proc. Ent. Soc. Wash. XXX, 1928, p. 34; Tanner, Ann. Ent. Soc. Am. XXI, 1928, p. 277 (parts).
- Cetoniinæ**: **Gymnetis** Schaeffer, Bull. Brook. Inst. I, 1905, p. 159.
- LUCANIDÆ**: **Platycerus** Van Dyke, Pan-P. Ent. IV, 1928, p. 105. **Sinodendron** Hatch, l. c., p. 175.
- CERAMBYCIDÆ** Comstock, Introd. Ent. 1925, p. 525 (subfam.).
- Prioninæ**: **Parandra** Schaeffer, Bull. Brook. Ent. Soc. XXIV, 1929, p. 39.
- Cerambycinæ**: **Tetropium** Hamilton, Tr. Am. Ent. Soc. XXIII, 1896, p. 165. **Tessaropa** Hamilton, l. c., p. 163. **Ibidion** Schaeffer, Bull. Brook. Inst. I, 1905, p. 162. **Lepturini** Swaine & Hopping, Can. Dept. Mines Bull. 52 (Biol. Ser. 14), 1928, p. 14 (genera), p. 16-67 (sp. of *Pseudopachyta-Anoplodera*). **Tragidion** Hamilton, Tr. Am. Ent. Soc. XXIII, 1896, p. 167. **Crossidius** Hamilton, l. c., p. 171.
- Lamiinæ**: **Oberea** Webster, Bull. Ill. Lab. Nat. Hist. VII, 1904, p. 3 (*bimaculatus* group).
- CHRYSOMELIDÆ** Henriksen, Danm. Fauna Bill. VII, 1927, p. 290-371 (genera of larvæ).
- Orsodacninæ-Criocerinæ** Brisley, Pan-P. Ent. IV, 1927, p. 55-60; 1928, p. 114-119 (western species).
- Chrysomelinæ**: **Hydrothassa** (*Prasocuris auct.*) Schaeffer, Jr. N. Y. Ent. Soc. XXXVI, 1928, p. 288. **Phaedon** Hatch, Pan-P. Ent. V, 1928, p. 44, 59.

- Galerucinae: Diabrotica** Scott, Ohio Nat. IX, 1908, p. 424 (Ohio).
- Halticinae** Duckett, U. Md. Agr. Exp. Sta. Bull. 241, 1920, p. 115-124 (Md.). **Ædionychis** Blake, Pr. U. S. Nat. Mus. LXX, 1927, (23), p. 5. **Crepidoderini** Schaeffer, Bull. Brook. Inst. I, 1905, p. 173 (genera). **Phyllotreta** Chittenden, Ent. Am. VIII, 1927, p. 8.
- MYLABRIDÆ** Boving, Pr. Ent. Soc. Wash. XXIX, 1927, p. 140 (genera of larvæ); Henriksen, Danm. Fauna Bill. VII, 1927, p. 374 (genera of larvæ). **Mylabris** Boving, Pr. Ent. Soc. Wash. XXIX, 1927, p. 141 (larvæ).
- CURCULIONIDÆ: Otiorrhynchinae: Artipus** Mitchell and Pierce, l. c. XIII, 1911, p. 49.
- Curculioninae** Boving, l. c., XXIX, 1927, p. 155 (6 tribes of larvæ). **Lepyrus** Van Dyke, Pan-P. Ent. V, 1928, p. 54. **Læmosaccini** Schaeffer, Bull. Brook. Inst. I, 1905, p. 140. **Barini** Boving, Pr. Ent. Soc. Wash. XXIX, 1927, p. 156 (genera of larvæ). **Micralcinus** Buchanan, Ent. News XXXVIII, 1927, p. 169.
- Cossinae** Horn, Pr. Am. Phil. Soc. XIII, 1873, p. 431-447.
- Calendrinae** Horn, l. c., p. 407-430. **Calendra** Chittenden, Pr. Ent. Soc. Wash. VI, 1904, p. 128 (*simplex* group); p. 132 (*venatus* group).
- SCOLYTIDÆ: Micracinae** Blackman, Tee. Pub. 25, Bull. N. Y. St. Coll. For. I, 3b, 1928, p. 185-208. **Pityophthori** Blackman, l. c., p. 7 (genera). **Myeloborus** Blackman, l. c., p. 17. **Pityophthorus** Blackman, l. c., p. 28-118.
- STREPSIPTERA** Pierce, Neb. U. Stud. IV, 1904, p. 13 (genera).

II. INDEX TO LOCAL LISTS

GENERAL

- Beutenmuller**, Jr. N. Y. Ent. Soc. I, 1893, p. 91-96, 134-146, 185-194; II, 1894, p. 42 (n. e. N. A.; 629 sp. Cicindelidæ-Hydrophilidæ; A, C, D); II, 1894, p. 43-48 (supplementary list of 157 sp. Cicindelidæ and Carabidæ, not all additional to first list).
- Blunck**, Syll. Insektenbiol. Col. I, 1925, p. 1-36 (150 sp.; C).
- Blatchley**, Jr. N. Y. Ent. Soc. XXXVI, 1928, p. 235-262 (98 sp.

Rhyncophora from e. N. A.; A, B, C). **Frost** in Needham, Frost, and Tothill, Leaf-Mining Ins. 1928, p. 294-296 (38 sp. leaf-miners; C). **Stiles and Hassall**, U. S. Hygienic Lab. Bull. 150, 1928, p. 326-342 (87 sp. of importance in public health; A, C). **Chamberlin**, Pan-P. Ent. V, 1929, p. 114-116 (92 sp. Buprestidæ n. of San Francisco).

BERMUDA

Ogilvie, Ins. Bermuda (Dept. Agr. Bermuda) 1928, p. 11-17 (71 sp. plus 12 unidentified sp.; C).*

CANADA

Entomological Record, Ann. Rep. Ent. Soc. Ont. LVIII, 1927, p. 93-99 (305 sp.; A).

QUEBEC: **Fisk**, Can. Ent. LX, 1928, p. 184 (Lacolle; 43 sp. under burlap on trees).

NEWFOUNDLAND

LABRADOR: **Fletcher**, Geol. Surv. Can. VIII, 1896, p. 333L (13 sp.).

UNITED STATES

Blanchard, Ent. Amer. V, 1889, p. 29-32 (N. Eng.; 62 sp. Buprestidæ; A, B, C). **Knull**, Ent. News XXXIX, 1928, p. 314-316 (11 sp., A, C).

ARIZONA: **Wickham**, Ent. News IX, 1898, p. 235-236 (Yuma; 18 sp., C). **Snow**, Kans. Univ. Sci. Bull. II (12), 1904, p. 325-336 (453 sp.; A); Tr. Kans. Acad. Sci. II (I), 1906, p. 161-176 (San Bernardino Ranch and Oak Creek Canyon; 724 sp.; A); XX (II), 1907, p. 141-151 (Pima Co.; 395 sp.). **Schaeffer, Jr.** N. Y. Ent. Soc. XVI, 1908, p. 127 (Huachuca Mts.; 29 sp. Cleridæ).

* Of these 71 species none are endemic, 7 are recently introduced and doubtfully established, 27 are cosmopolitan or at least Holarctic, 17 are exclusively Nearctic, 11 are Nearctic and Neotropical, 5 are exclusively Neotropical, 1 is circumtropical, 1 is Palearctic (probably introduced), and 2 are unaccounted for. The figures demonstrate the Nearctic character of the fauna, and Bermudan species should be included in future catalogues and check-lists of Nearctic Coleoptera.

- CALIFORNIA:** Fall, Ent. News V, 1894, p. 99-101 (San Bernardino Mts.; 170 sp.). Wickham, Ent. News IX, 1898, p. 236-237 (Yuma: 11 sp.; Majave: 24 sp.; Barstow: 24 sp.). Baker, 1st Ann. Rep. Laguna Marine Lab. 1912, p. 170-173 (Laguna Beach; 28 sp.; C). Woodworth, Guide Cal. Ins. 1913, p. 171-252 (4364 sp.). Davis, Bull. Brook. Ent. Soc. XI, 1916, p. 11-12 (10 sp. *Pleocoma*). Garnett, Can. Ent. L, 1918, p. 172-177, 205-213, 248-262, 281-284 (221 sp. Cerambycidae: 178 from Cal., 53 from L. Cal.). Myers, Jr. Ent. Zool. X, 1918, p. 43-53 (Claremont-Laguna Beach; 221 sp., A). Dodds, l. c., XV, 1923, p. 34-36 (Laguna Beach; 27 sp.). Illingworth, Proc. Hawaiian Ent. Soc. VI, 1927, p. 398-400 (Upland; 14 sp. from carrion; B, C).
- FLORIDA:** Wickham, Bull. Buff. Soc. Nat. Sci. IX, 1910, p. 399-405. Davis and Leng, Jr. N. Y. Ent. Soc. XX, 1912, p. 120-121 (Cleveland; 41 sp.). Blatchley, Can. Ent. L, 1918, p. 52-59 (101 sp.; A, B, C); L, 1918, p. 416-424 and LI, 1919, p. 28-32 (44 sp.; A, B, C).
- ILLINOIS:** Brendel, Bull. Sci. Assoc. Peoria 1887, p. 53-63 (Peoria; 1137 sp., A).
- IOWA:** Wickham, Proc. Iowa Acad. Sci. for 1899, VII, 1900, p. 59-60 (3 sp. *Eleodes*; A). Sweetman, Ann. Ent. Soc. Am. XXI, 1928, p. 296 (Ames; 10 sp. from grass roots; C).
- KANSAS:** Knaus, Can. Ent. XXXI, 1899, p. 37-40. Douglass, Jr. Kans. Ent. Soc. II, 1929, p. 2-15, 26-38 (315 sp.; A, C).
- LOUISIANA:** Leng, Jr. N. Y. Ent. Soc. X, 1902, p. 132-136 (10 sp. Cicindelidae; A, C). Rosewell, Can. Ent. LII, 1920, p. 203 (8 sp. on Black Locust).
- MASSACHUSETTS:** Blanchard, Ent. Amer. V, 1889, p. 29-32 (Lowell; 48 sp. Buprestidae). Frost, Can. Ent. LII, 1920, p. 25-29 (Sherburne). Taylor, Psyche XXXV, 1928, p. 220-222 (Boston; 22 sp. from coniferous twigs; C).
- NEW HAMPSHIRE:** Mt. Washington: Slosson, Ent. News VI, 1895, p. 318-319 (88 sp.). Bowditch 1896, add (672 sp. A, C).
- NEW JERSEY:** Leng, Jr. N. Y. Ent. Soc. X, 1902, p. 236-240 (pine barrens; 13 sp. Cicindelidae; A, B, C). Nicolay, Ent. News XXX, 1919, p. 277 (11 sp.; A, B, C).

- NEW MEXICO:** Fall, Psyche, 1902, p. 303 (Hudsonian zone; 12 sp.; A, C).
- NEW YORK:** Chittenden, Ent. Amer. V, 1889, p. 217-220 (Ithaea; 20 sp. Buprestidæ; B, C). Young, Bull. N. Y. St. Mus. 64 (Ent. 17; 18th Rep. St. Ent. for 1902), 1903, p. 153-161 (Newport; 730 sp.).
- NORTH CAROLINA:** Dury, Ent. News XXII, 1911, p. 273-274 (Plott Balsum Mts.; 24 sp.; A, B, C).
- OKLAHOMA:** Brown, Okla. Acad. Sci. VII, (1927), 1928, p. 24-28 (53 sp. coprophagous Scarabæidæ; A, B, C).
- OREGON:** Wickham, Ottawa Nat. XVII, 1903, p. 49-52 (sea beach).
- RHODE ISLAND:** Davis, Col. R. I. ed. 1, 1901, 40 pp. (795 sp., B); ed. 2, 1902, p. 10-47 (1009 sp., B).
- TEXAS:** Snow, Tr. Kans. Acad. Sci. XX (I), 1906, p. 140-150. (Brownsville and Galveston; 418 sp.; A). Tucker, Tr. Kans. Acad. Sci. XX (I), 1906, p. 85-89 (85 sp.; A, B). Schaeffer, Jr. N. Y. Ent. Soc. XVI, 1908, p. 127 (Brownsville; 27 sp. Cleridæ).
- VIRGINIA:** Robinson, Jr. N. Y. Ent. Soc. XXX, 1918, p. 30-33 (Buckingham Co.; 42 sp. on Black Oak).